Abstract:

The subject of the present invention is to provide means to fully achieve the inhibition of cancer bone metastasis, which was accomplished through the repeated selection of agents with aiming at obtaining more beneficial effects on the inhibition of cancer bone metastasis. The invention is achieved by combining an inhibition substance of the activation of osteoclast caused by the degradation of a signaling molecule, TRAF6, in the activation of osteoclast, a suppressive substance of the differentiation from osteoclast precursor cells to mature osteoclasts, and/or a bone resorption inhibitor and/or a Cox2 synthesis inhibitor. This combination was found to have an extremely high utility for the inhibition of cancer bone metastasis. Further, the invention is achieved by the inhibitor of cancer bone metastasis, wherein an IL-12 production inducer as an inhibition substance of the activation of osteoclast caused by the degradation of a signaling molecule, TRAF6, in the activation of osteoclast, a tyrosine kinase inhibitor as a suppressive substance of the differentiation from osteoclast precursor cells to mature osteoclasts, and/or a bisphosphonate as a bone resorption inhibitor and/or a Cox2 synthesis inhibitor for inhibiting the stimulation of RANKL/RANK receptor are combined.